

ABSTRACT OF THE DISCLOSURE

A relatively high strength high toughness medium Carbon Copper-Nickel-Chromium alloy steel and method that eliminates and/or reduces the use of scarce, expensive alloying elements and is lower in cost than existing high strength high toughness alloy steels with comparable strength and toughness properties. In a first embodiment, the alloy steel is comprised of by weight about 0.40-1.00 % Copper, about 2.50-8.00% Nickel, and about 0.80-3.50 % Chromium. In a second embodiment the alloy steel is comprised of by weight about 0.55-0.70 % Copper, about 1.0-6.0 % Nickel, and about 1.0-2.2% Chromium.